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Prepared for: File

Project Title: Florence Copper

Project No.: 149050

Subject: Florence Copper Project, Temporary APP and UIC Permits,

Ambient Events 7 and MW-01s 2 and 3

Date: May 16, 2018

To: Ian Ream

From: Barb Sylvester

Groundwater sampling at the Florence Copper Project site took place January 9 through January 11 and January 15 and 25, 2018. Twelve (12) Point-of-Compliance (POC) and Supplemental wells were sampled as part of the ambient monitoring program for the Temporary APP and UIC permits. Wells MW-01-LBF, MW-01-O, and M61-LBF were sampled twice during the month, fourteen days apart. Fifteen total samples were collected, including one duplicate sample. Low-flow pumps were installed in wells MW-01-LBF and MW-01-O. The low-flow pump was removed from well M61-LBF and an electric pump installed. Table 1 summarizes the sampling activities.

Ambient samples were to be analyzed for metals, inorganics, organics, and radionuclides (Table 2). Samples for metal analysis were filtered in the field.

	Table 1. Summary of January 2018 Ambient Event									
Date	Sample Identification	Pump Style	Analyses							
January 9, 2018	M52-UBF	Low-Flow	Level II							
	M54-LBF	Low-Flow	Level II							
	M54-O	Low-Flow	Level II							
	M58-O	Low-Flow	Level II							
January 10, 2018	M57-O	Low-Flow	Level II							
	M59-O	Low-Flow	Level II							
	M61-LFB M63.0 (Duplicate)	Electric	Level II							

	Table 1. Summary of January 2018 Ambient Event									
Date	Sample Identification	Pump Style	Analyses							
January 11, 2018	MW-01-LBF	Low-Flow	Level II							
January 11, 2018	MW-01-O	Low-Flow	Level II							
January 15, 2018	M55-UBF	Low-Flow	Level II							
	M56-LBF	Low-Flow	Level II							
	M60-O	Low-Flow	Level II							
January 25, 2018	M61-LFB	Electric	Level II							
	MW-01-LBF	Low-Flow	Level II							
	MW-01-O	Low-Flow	Level II							

Table 2. Analytical Parameters								
Analysis	Method	Preservative						
Inorgai	nic Common Ions							
pH (lab)	SM 4500H+	None						
Electroconductivity (EC) (lab)	SM 2510B	None						
Bicarbonate Alkalinity	SM 2320B	None						
Carbonate Alkalinity	SM 2320B	None						
Hydroxide Alkalinity	SM 2320B	None						
Total Alkalinity	SM 2320B	None						
Chloride	EPA 300.0	None						
Fluoride (Level I)	EPA 300.0	None						
Nitrate as N	EPA 300.0	None						
Nitrite as N	EPA 300.0	None						
Sulfate (Level I)	EPA 300.0	None						
Total Dissolved Solids (Level I)	SM 2540C	None						
Cation/Anion Balance	Calculation	-						
Cyanide	EPA 335.4	NaOH						
Formation-R	Related Radiochemicals							
Gross Alpha	600/00-02	None						
Gross Beta	900.0	None						
Radium 226	903/GammaRay HPGE	None						
Radium 228	904/GammaRay HPGE	None						
Total Uranium Isotopes (if G. Alpha >12.0)	ASTM 6239	None						
Radon 222	7500-Rn	None (Voas)						
Total Uranium (unfiltered total as mg/L)	EPA 200.8	HNO3						



Table 2. Analytical Parameters								
Analysis	Method	Preservative						
Process-Relate	ed Organics							
Extractable Fuel Hydrocarbons (Diesel Range Organics)	EPA 8015D	None						
Benzene	EPA 8260B	HCI Voas						
Ethylbenzene	EPA 8260B	HCI Voas						
Toluene	EPA 8260B	HCI Voas						
Total Xylene	EPA 8260B	HCI Voas						
Carbon Disulfide	EPA 8260B	HCI Voas						
Napthalene	EPA 8260B	HCI Voas						
Octane	EPA 8260B	HCI Voas						
Trace Metals and Cation	s (Filtered-Dissolved)							
Aluminum	EPA 200.8	HNO3						
Antimony	EPA 200.8	HNO3						
Arsenic	EPA 200.8	HNO3						
Barium	EPA 200.8	HNO3						
Beryllium	EPA 200.8	HNO3						
Calcium	EPA 200.7	HNO3						
Cadmium	EPA 200.8	HNO3						
Chromium	EPA 200.8	HNO3						
Cobalt	EPA 200.8	HNO3						
Copper	EPA 200.8	HNO3						
Iron	EPA 200.7	HNO3						
Lead	EPA 200.8	HNO3						
Magnesium (Level I)	EPA 200.7	HNO3						
Manganese	EPA 200.8	HNO3						
Mercury	EPA 245.1	HNO3						
Nickel	EPA 200.8	HNO3						
Potassium	EPA 200.7	HNO3						
Selenium	EPA 200.8	HNO3						
Sodium	EPA 200.7	HNO3						
Thallium	EPA 200.8	HNO3						
Zinc	EPA 200.8	HNO3						



Observations/Problems

- 1. Low-flow pumps were installed in wells MW-01-LBF and MW-01-0.
- 2. The low-flow pump was removed from well M61-LBF and an electric pump installed to observe any changes to water quality with a traditional three well-volume purge.
- 3. Wells MW-01-LBF, MW-01-O, and M61-LBF were sampled twice during the month, fourteen days apart.
- 4. During the January 25 sampling event, M61-LBF was purged for three casing volumes, but not three borehole volumes. This is not expected to affect sample quality.
- 5. Turbidity measurements above 5 NTUs were observed in M56-LBF.



Table 3. Summary of Water Levels									
Sample Event:	Ambient Event 7, N	IW-01s 2&3			Measured By:	M. Orcutt			
				Elevation of	Water Level				
		Depth to Water	Description of	Measuring Point	Elevation				
Well ID	Sample Date	(feet bls)	Measuring Point	(feet amsl)	(feet amsl)	Comments			
M52-UBF	1/9/2018	229.88	TOC	1485.04	1255.16				
M54-LBF	1/9/2018	228.66	TOC	1481.89	1253.23				
M54-0	1/9/2018	226.12	TOC	1482.40	1256.28				
M55-UBF	1/15/2018	224.71	TOC	1479.21	1254.50				
M56-LBF	1/15/2018	224.85	TOC	1478.69	1253.84				
M57-0	1/10/2018	222.92	TOC	1478.75	1255.83				
M58-0	1/9/2018	224.80	TOC	1481.16	1256.36				
M59-0	1/10/2018	223.80	TOC	1480.26	1256.46				
M60-0	1/15/2018	223.08	TOC	1477.45	1254.37				
M61-LBF	1/10/2018	223.32	TOC	1480.80	1257.48				
M61-LBF	1/25/2018	NM	TOC	NM	NA				
MW-01-LBF	1/11/2018	225.63	TOC	NM	NA				
MW-01-LBF	1/25/2018	225.45	TOC	NM	NA				
MW-01-0	1/11/2018	223.34	TOC	NM	NA				
MW-01-0	1/25/2018	224.80	TOC	NM	NA				

amsl = Above Mean Sea Level

TOC = Top of Casing

TOM = Top of Monument

NM = Not Measured

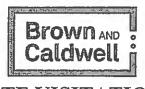
Table 4. Summary of Field Parameters										
Sample Event: Ambient Event 7, MW-01s 2&3 Measured By: M. Orcutt										
Well ID	Sample Date	Temperature (°C)	рН	Conductivity (µmhos/cm)	Turbidity (NTU)	Comments				
M52-UBF	1/9/2018	22.5	7.35	1,434	1.54					
M54-LBF	1/9/2018	22.3	7.57	1,511	0.97					
M54-0	1/9/2018	21.8	8.16	768	0.40					
M55-UBF	1/15/2018	22.3	7.22	1,480	4.60					
M56-LBF	1/15/2018	24.4	7.37	1,402	8.21					
M57-0	1/10/2018	21.4	7.83	842	4.09					
M58-0	1/9/2018	22.3	7.60	1,505	4.59					
M59-0	1/10/2018	21.1	7.98	860	0.90					
M60-0	1/15/2018	21.0	7.67	1023	4.92					
M61-LBF	1/11/2018	26.8	7.87	767	2.72					
M61-LBF	1/25/2018	27.1	7.93	745	2.68					
MW-01-LBF	1/11/2018	22.2	7.36	1,489	3.20					
MW-01-LBF	1/25/2018	22.8	7.35	1,471	2.62					
MW-01-0	1/11/2018	21.9	7.63	1,291	1.94					
MW-01-0	1/25/2018	21.5	7.60	1,418	2.37					

[°]C = degrees Celsius

µmhos/cm = Micromhos per Centimeter

NTU = Nephlometric Tubidity Units

[°]F = degrees Fahrenheit



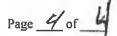
JOB NAME: <u>Flore</u>	nue Coppa	JOB NUMBER:	150342,301
PERSONNEL: M. O.			-9-2018
COMMENTS:		ndy, Warm, F	
0740 On 517	te, signed	in at 4	front office
and spok	e with I	4N,	
Brought 1	New box or	F GED +	ilfers and
ladela Tim Car	-/-		
Picked up	QED equips	nent and	Nitrogen
Mos to W	ells to wa	irm up [Nitragen, BC'S GIQ Meks
tor APP Cal	bratien		
20 /	9		
0900 Sample	1 M54-	<u>-0</u>	
1012 Sample			
1100 Short le	unch and re	turn	1 (C.
Mab to M	58 - No Ke	ey - Petro	in to office.
Delay wit	h road b	10cked	
1250 Canal	1 11000	7	
1250 Sample Mob to	WACZ - L. D.F.	-	
71106 76	M36- CBI		
1407 Sampled	MSZ - UBF	7	
1450 Mab b.	ack to sh.	ap. Dras	OSE BED
Equionent	and han	dover s	amples to Ia
D 15001			2
Radon ZZZ, R	ad Chem to	v Rad -	Scolety
•			
1510 off 5,7	<i></i>		
	•		
	*		



JOB NAME: _	Plonence Copper	JOB NUMI	BER:	150342,301
	M. Ocacatl		1-1	0-2018
COMMENTS:	/	Misty Rain, Co	ool	
0730	On site, Ch	recked in	WIY	h Greg,
Gra	b Turner coo	pler and q	150 6	equipment,
For A	On site, Ch to Turner coo to welk to	Warm up B	c c	10 meters
	Sampled MS Checked out	mw-01 0	vell:	5- Acass
OK f	vom North,		1	
Spak	Le with Iau	on In	take	- Changes
Mh	9-01-0 No CI	range		
Mu	9-01-LBF -170	O' drap Tube	(300	15) Total lengt
to	vem North, Le Vith Ican 1-01-0 No Ch 1-01-LBF -170 Set Q. 400'	+1- pump + a	lrop y	tube lengths
10:00 Y	Matton site ?	to set pur	205	
Che	Matt on site ? cked OFD SO 1-01'S	upply and	mo	b to
MW	LEFD'S OF	in Lath	1.101/1	
Resi	terrord reals	to 51000	<u> </u>	
Sho	turned reels	1 return	te.	ms>-0
	upled MST-			
ILLUCT MA	de back it she	es O		
Ret	urned QED an	d 9 ave 591	mple	s to
F	9n,			,
No.	Sign in/out			
1510 04	f 5, te to	Rad Safet	2	
	•			

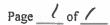


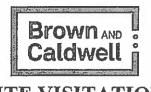
JOB NAME:	Torence Capper	JOB NUMBER: 73°342	
	MOrout	DATE: /-//-Z018	
COMMENTS:			
COMMENTS			
0740 0	in site, chec	Ked in with Ian	
and	orched up OF 1) gawioment.	
M61 G	renevator aut of	fuel, Mike to fill and	
restor	/		
M61	Started 1-10-18	rei(By HarA)	
	State WL	GPM ~ 9 after	-
	irge drawdown,		
0800 M	26 to MW-01	wells to warmup 80"	
123 me	tes for APP a	calibration	
0920 Sa	moled MW-0	1-0	
1100 San	noted MW-01	1-LBF	
1150 Sho	mpled MW-01 rtlunch		
1255 Sample	ad M61-LBF	= al Dup M63,0	
	00	·	
1400	017 51te.	to Rad Safely	
		,	
 			
-			
		14	





JOB NAME: Florence Coppa	JOB NUMBER:15034 ^{7,307}
PERSONNEL: M. Ora N	DATE: /- 15 2 618
COMMENTS:	
0800 On site spe looded up QED equi Mob to wells and	pment and coclers warned up BC'S WG motes
0918 Sampled M60-0	
1028 Sampled M56-	1.BF
1145 Sampled MS5-0	18#
	alogd Nitragen, QED equity
1310 off 51/2 to	Rad Salely
	\
Э Н	





JOB NAME: _	Morence Coppe	JOB NUMBE	R: <u>150342</u>
PERSONNEL:	M. Orcul	DATE:/-	25-2018
COMMENTS:	Clear	Warn Pim	ory AM.
0800	On site, Pi	ched up (DEO equipment pcf xfra). BC's WQ
Mod	to wells to	Warm up	BC'3 W
mex	ers for APP	Calbratio.	7
11:12	Sampled MW.	-01- LBP	
12.00	Short lunch	and retu	rn to
- Pump	sing well Mbi	-LBF	
1310 S	ampled M61-	LBF	
1350 M	as back to a	inload N.T	ragen /QED For Turner labs
	Site to Ray		
		*	
			En 1/25/18
	•		1

PROJECT: Florence Copper

M52-UBF

WELL ID:

19 12027 M. Orcutt minutes hours DATE: SAMPLED BY: 1348 1001 Time Purge Start: Time Sample Start: Time Purged: liters feet feet 228,88 275 5.6 TD Casing: System Purge before Params Static Depth to Water: WELL INFORMATION

Comments	QED Bladder Pump Intake 237.5'	Clear, NO ODORS				14)				Low How ter Voc				
Pulldown DTW (feet)	<0.5 ft	000	000	_	4									
Purge Volume (L)		3,0	4,0	6,0	6,0									
Pump Rate (L/min)	<0.5L/min	0137	0133	0.33	6,33	\								
Turbidity (NTU)	10% or <5	2,00	5711	1911	45"	,								
DO (mg/L)	10% or <.5	2,3	81/4	5113	1115				1					
EC (umhos/cm)	+/-3%	1433	1433	1433	1434									
Hd	+/- 0.1	7,36	7,35	7.35	2,35									
Temperature (°C)	+/- 3%	22.5	5,72	225	22.5									
Time		1356	1359	1402	1405						13			

Sample ID: $\overline{M52-UBF}$ Sample Time, $\overline{I4G7}$ Duplicate (ID = $\overline{M/H}$, Time $\overline{M/H}$) Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D

PROJECT: Florence Copper

M54-LBE WELL ID:

M. Orcutt SAMPLED BY:

19 /2017 2018

DATE: Time Purge Start:

2101

hours hours

8460 Time Sample Start: Time Purged:

minutes liters System Purge before Params

feet feet

228.66

630

TD Casing:

WELL INFORMATION

Static Depth to Water:

		,					 					 	 _
Comments	QED Bladder Pump Intake 470'	Clear, NO ODORS						Low How for 1025					
Pulldown DTW (feet)	<0.5 ft	0010	00,00	1	7						112		
Purge Volume (L)		4,0	5,0	6,0	2,0								
Pump Rate (L/min)	<0.5L/min	02.01	0,33	0,33	0133								
Turbidity (NTU)	10% or <5	2,10	1.83	96'0	0,97								
(mg/L)	10% or <.5	3,05	3,83	12.21	3,60			<u> </u>					
EC (umhos/cm)	+/- 3%	1513	1512	1151	1151								
됩	+/- 0.1	21.76	7.57	2,58	7.57								
Temperature (°C)	+/- 3%	22.4	22,3	22,3	22,3								
Time	10:01	stra	1004	1001	1010								

.) Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D J. Time 1/19-Duplicate (ID = VIA Sample ID: M54-LBF Sample Time, 1017

WELL ID:

WELL ID: MS4-0	SAMPLED BY: M. Orcutt	<u>F</u> :	-O hours	hours	minutes	Comments		QED Bladder Pump Intake 1000'	Clear, NO ODORS	b						Low flow for voc.			
	SAM		17820			Pulldown	(feet)	<0.5 ft	00'0			7)			3				
			Time Purge Start:	Time Sample Start:	Time Purged:	Purge	Volume (L)		9,5	10,5	11.5	1215							
			=	ᄪ		Pump Rate	(L/min)	<0.5L/min	2510	0133	0.33	0,33							
						Turbidity	(UTN)	10% or <5	1,42	0,78	0,50	040							
			feet	feet	liters	00	(mg/L)	10% or <.5	1,82	891	9511	6/11							
			1,200	226,12		표 교	(umhos/cm)	+/- 3%	764	191	202	768							İ
						Hd		+/- 0.1	1118	8.15	9/18	8:16	9						
PROJECT: Florence Copper		ATION	TD Casing:	Static Depth to Water:	System Purge before Params	Temperature	()	+/-3%	21.9	2/18	21.9	21.8							
PROJECT: Flor		WELL INFORMATION		Stati	System Pur	Time			6480	0852	3880	8580							

Sample ID: M54-O Sample Time, 0900 Duplicate (ID = 1/19 Time 1/14) Analyses Requested: Level II - Metals, Inorgs, Radios, BTEX, TPH-D

PROJECT: Florence Copper

M55-UBF WELL ID: _

M. Orcutt SAMPLED BY: 202

145/2027

DATE:

260 TD Casing: Static Depth to Water: WELL INFORMATION

liters feet feet 224.71 System Purge before Params

5411 Time Purge Start:

minutes hours hours 20 Time Sample Start: Time Purged:

		1	ı	F									1	1		
Comments	QED Bladder Pump Intake 250'	Close NO 000RS								Low thow for 100						
Pulldown DTW (feet)	<0.5 ft	0000	_		3											
Purge Volume (L)		3,0	4.0	2,0	9	į		22				:	3			
Pump Rate (L/min)	<0.5L/min	0,30	0,33		4										1	
Turbidity (NTU)	10% or <5	10,5	3212	5,58	460				824		:			3		
DO (mg/t)	10% or <.5	82'h	02'5	8215	5,50											
EC (umhos/cm)	+/- 3%	1479	0841	1479	1480											:
H _d	+/- 0.1	2212	17.7	17.7	221											
Temperature (°C)	+/- 3%		22,3	22.3	223											
Тіт	c	104/185	1138	17/	1144											

M H Time M H) Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D Sample ID: M55-UBF Sample Time, 1/45 Duplicate (ID = _____

M56-LBF

WELL ID:

M. Orcutt minutes hours hours DATE: SAMPLED BY: 10:00 1028 Time Purge Start: Time Sample Start: feet feet 340 TD Casing: Static Depth to Water: PROJECT: Florence Copper WELL INFORMATION

Time Purged:

liters

System Purge before Params

Comments	QED Bladder Pump Intake 330'	Clear NO ODORS							Lin They to 1100				8	
Pulldown DTW (feet)	<0.5 ft	0,15	0,15	0,15	0,15						×			
Purge Volume (L)		2,5	3,5	4,5	515	\								
Pump Rate (L/min)	<0.5L/min	1210		0,53	0153									
Turbidity (NTU)	10% or <5	1012	10,02	866	1218						:			
DO (mg/L)	10% or <.5	1,94	2,09	2118	2,30			į						
EC (umhos/cm)	+/- 3%	(385	00hl	1404	1402									
Hd	+/-0.1	21/28	7,35	7,37	7,37		-							
Temperature (°C)	+/- 3%	21.4	7/14	21.4	21.4									
Time		5/0/	6101	7201	5201									

MH Time M/M) Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D Duplicate (ID = __ Sample ID: M56-LFB Sample Time, 1008

PROJECT: Florence Copper

M57-0 WELL ID: _ M. Orcutt SAMPLED BY:

DATE:

liters feet feet 222,92 TD Casing: Static Depth to Water:

8.7

System Purge before Params

WELL INFORMATION

Time Purge Start: Time Sample Start:

1345

minutes hours hours

1302 Time Purged:

	Comments			QED Bladder Pump Intake 950'	Clear, NO ODORS						1,000 How for 1003					/ / /
•	Pulldown	WTQ	(feet)	<0.5 ft	00'0	0000	0,00					177				
	Purge	Volume	3		0'6	10,0	11.0	12.0						i		
	Pump Rate	(L/min)		<0.5L/min	0,32	0,33	0,33	0,33								
	Turbidity	(NTU)		10% or <5	5,09	4.75	4. 70	4.09								
1	8	(mg/L)		10% or <.5	8011	1,03	4011	2011								
	EC	(mp/soyum)		+/- 3%	850	845	748	248								
	Hd	,		+/- 0.1	42'6	7,77	7,80	7,83								
	Temperature	(0,0)		+/- 3%	21,2	21,4	たって	7.12								
	Time				1330	1333	328	1329			Į.		4			

1/14 Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D Time Sample Time, 1342 Duplicate (ID = N/A Sample ID: M57-0

PROJECT: Florence Copper

M58-0

WELL ID:

M. Orcutt SAMPLED BY: DATE: WELL INFORMATION

LL INFORMATION

TD Casing: 1,200 feet

Static Depth to Water: 234.80 feet

System Purge before Params 8.7 liters

Time Purge Start: /2,10 hours
Time Sample Start: /250 hours
Time Purged: 40 minutes

Comments		QED Bladder Pump Intake 950'	LT. Clely, NO ODUE						6	Low How for Mas!						8756
Pulldown	DIW (feet)	<0.5 ft	00'00			Z	-									
	Volume (L)		9,0	10.0	11.0	12,0										
Pump Rate	(L/min)	<0.5L/min	0,32	0.33	0.33	0,33										
Turbidity	(UTN)	10% or <5	h'01	2002	4.80	459										
00	(mg/L)	10% or <.5	2,01	1, 82	121	1,73		35								
ِ ا ا	(mp/soum)	+/- 3%	1463	1459	1459	1505		1								
H	•	+/- 0.1	7152	2512	1512	2,60					-		24			
Temperature	() _e)	+/- 3%	22,2	22,2	7717	22,3										
Time	1		(238	1576	1244	1271	-									

_____ Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D Sample ID: $\overline{M58-0}$ Sample Time, $\sqrt{1250}$ Duplicate (ID = $\sqrt{1/4}$

PROJECT: Florence Copper

M59-0

WELL ID: __

M. Orcutt hours DATE: SAMPLED BY: Time Purge Start: feet 1,200 TD Casing: WELL INFORMATION

liters feet 8.7 System Purge before Params Static Depth to Water:

Time Purge Start: 0800 hours

Time Sample Start: 0837 hours

Time Purged: 37 minutes

													٠.	,	
Comments		QED Bladder Pump Intake 950'	Clear No ODORS			10			3	Low How tor Vac					246.0
Pulldown	(feet)	<0.5 ft	0210	07/0	52'0	520									
Purge Volume	3		0'6	0.01	0111	021			2						
Pump Rate (L/min)		<0.5L/min		$\Omega'O$	0,33	0,33									
Turbidity (NTU)	,	10% or <5	1,27	1132	0h1/	0,90									
DO (mg/t)		10% or <.5	1,23	1159	1,60	1,73		£3							
EC (umhos/cm)		+/- 3%	835	850	458	860									
Hd		+/- 0.1	181	MOL	26'L	86'L									
Temperature (°C)		+/- 3%	21.1	2019	2/11	21,1	-								
Time			0826	6280	10932	08.35	,								

~ /ペー) Analyses Requested: <u>Level II − Metals, Inorgs, Radios, BTEX, TPH-D</u> Z/P Time Sample Time, 0837 Duplicate (ID = ___ Sample ID: M59-O

PROJECT: Florence Copper

M60-0

WELL ID:

115/2017/2018 QED Bladder Pump Intake 950' ODONE M. Orcutt minutes Comments hours hours 01ean No DATE: SAMPLED BY: 0240 8169 700 Pulldown <0.5 ft 000 (feet) **WTQ** Time Purge Start: Time Sample Start: Time Purged: Purge Volume Pump Rate (L/min) <0.5L/min 0.33 0.77 0.30 10% or <5 28.6 Turbidity (UTN) 10% or <.5 00 2,20 (mg/L) 46, liters feet feet (mp/soyun) H201 1013 +/-3% 1095 223,08 1,200 8.7 7,67 7,58 +/-0.1 표 TD Casing: **System Purge before Params** Static Depth to Water: **Temperature** 2110 240 +/-3% 20,7 (°C) WELL INFORMATION Time 090

ا Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D

af /R Time

Sample ID: M60-0 Sample Time, O9/8 Duplicate (ID = _

2.4.0.4

24 25 BAY, ALO OBOR tuldus. M. Orcutt M61-LBF **FULL PUMP** Comments gallons gallons Sagan gal/ft feet Part feet feet pump a 440 223.32 70F Assams DATE: WELL ID: SAMPLED BY: 2124 4.12 864 1.02 N 11,720 Volume Purged (gallons) Water Level at Sampling: Purge Volume: Static Depth to Water: Feet Water in Casing: Casing Capacity: 3X Sand Pack Volume 4065 start 5600 8911000 Pump Rate 0 (gpm) 4.32 2,03 Turbidity (DTA) (mg/L) gpm (est) minutes minutes hours hours feet (umpos/cm) 10% Ш 1230 652) D 11-11-1 1465 435-635 281-01-635 186 10% 표 Purge End: Purge Start: Total Purge Time: Discharge Rate: Estimated Purge Time: TD Casing: Screened Interval: Temperature (°C) PROJECT: Florence Copper 10% WELL INFORMATION Time かん K

Sample ID: M61-LBE Sample Time, M65 Duplicate (ID = M63/O, Time (310)) Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D

PROJECT: Florence Copper

M61-LBF

WELL ID:

1-725/2018 M. Orcutt gallons gallons gal/ft feet feet feet DATE: SAMPLED BY: 60403 TUZ ~ 202 864 1.02 Θ 7 Water Level at Sampling: Purge Volume: Static Depth to Water: Feet Water in Casing: Casing Capacity: 3X Sand Pack Volume gpm (est) minutes minutes hours hours feet 00 435-635 295 635 81-52-1 81.52-1 Purge Start: Purge End: TD Casing: Estimated Purge Time: Total Purge Time: Screened Interval: Discharge Rate: **WELL INFORMATION**

Comments	FULLPUMP	Clear NO ODORS			Atter Samolas	1		(1011) + 10w tor 10c 3		* Purch parceps 5 3 Carains	This but before	3 borende volunez	
Purged Volume (gallons)					W1622						>	1	
Pump Rate (gpm)		5,5	~		7	a			i				
Turbidity (NTU)		3,32	3//6	9332 3:08	8912								
DO (mg/L)		3,00	3.33		2,36								
EC (umhos/cm)	10%	756	844	147	5245								
Hd	10%	12	7.89	8,00	7,93								
Temperature (°C)	10%	2619	1128	27.2	1128								
Time		1252	1300	13.05	1310								

Sample ID: M61-LBF Sample Time, 1310 Duplicate (ID = M/H, Time M/H,) Analyses Requested: Level II - Metals, Inorgs, Radios, BTEX, TPH-D

5/02 Lan QED Bladder Pump Intake 580' Clear, No ODORS Analyses Requested: Level II - Metals, Inorgs, Radios, BTEX, TPH-D MW-01-LBF M. Orcutt Dar minutes Comments hours Xira parge on New DATE: WELL ID: SAMPLED BY: OK 2 44 0000 0100 000 0,00 0010 0000 Pulldown 0,0 0,00 <0.5 ft WID (feet) Time Purge Start: Time Sample Start: Time Purged: 120 Volume Purge 3 Pump Rate <0.5L/min (L/min) 0,33 5-210 0125 0133 0,26 0,3 0,25 Now Dump 1-10-2018 Q Turbidity 10% or <5 5,02 3,42 89 (UTN) 185 3,47 3136 75h 10% or <.5 4.50 5814 4,70 4.65 4.69 (mg/L) _ Duplicate (ID = _ 8 liters feet feet (mmysoyum) 06/1 5861 08h/ 184. 6861 +/-3% 1884 Sample ID: MW-01-LBF Sample Time, 1100 22 630 5.0 7,42 7136 2,36 25.7 +/-0.1 7136 핊 System Purge before Params Static Depth to Water: TD Casing: PROJECT: Florence Copper **Temperature** 22,0 22,1 2212 +/-3% (°C) WELL INFORMATION 1039 9501 10:35 1001 1053 Time 19501 10.45 20:01

PROJECT: Florence Copper

0

WELL INFORMATION

2251 630 TD Casing: System Purge before Params Static Depth to Water:

5.0

liters feet feet

Time Purge Start:

Time Sample Start: Time Purged:

MW-01-LBF WELL ID: SAMPLED BY:

1-1

M. Orcutt DATE:

minutes hours hours 1028

100g QED Bladder Pump Intake 580' CLEGINO ODORS 160 to Comments 1,04 0/0 Pulldown 8,0 0010 0010 0,00 <0.5 ft 000 (feet) 6003 **∑**I Purge Volume 00 3 Pump Rate 5210 <0.5L/min 5210 (L/min) 0,27 0,25 5210 5210 5210 10% or <5 Turbidity 3,27 5.37 (NTU) 2,36 2,50 3.80 10% or <.5 0014 3,94 3,92 3,86 (mg/L) 8 (umpos/cm) 469 1470 1470 02/11 +/-3% 12/11 7,37 2,36 +/-0.1 핊 **Temperature** 22.7 22,6 23,7 +/- 3% 2217 (°C) 1102 Time 9011

A/III) Analyses Requested: Level II – Metals, Inorgs, Radios, BTEX, TPH-D J Time Duplicate (ID = 1/4) Sample ID: MW-01-LBF_Sample Time, 1/12



PROJECT: Florence Copper

MW-01-0 WELL ID: M. Orcutt SAMPLED BY:

11/ 420170 2018 DATE:

> 223,34 1,200 9.2 TD Casing: Static Depth to Water: System Purge before Params

WELL INFORMATION

liters feet feet

New pump 1-10-2018

Time Purge Start: Time Sample Start:

2280 0250 Time Purged:

minutes

hours hours

QED Bladder Pump Intake 1000' Lan Over purp Low How tor Vac clear, No ocor Comments 2000 First 21245 Sid 51-Clearing Some on 2,4,6,8 Pulldown <0.5 ft 6010 (feet) WID 0,07 8010 0,06 000 9010 0,99 0,0 Volume Purge 13,5 12.5 14.5 15.5 95 1615 0,0 Pump Rate <0.5L/min (L/min) 0,27 0,33 0,33 0,33 10% or <5 Turbidity 2,22 200 2,01 (UTN) 2,43 2,43 821 194 181 10% or <.5 2,56 3,42 2,66 3.90 2,75 2148 3107 (mg/L) 767 (umpos/cm) 752 262/ 7571 250 +/- 3% 162 162 2621 7.62 7,62 763 7,60 7,60 1912 +/-0.1 7,59 핊 Temperature 27.15 21.9 +/-3% 21.00 () () 200 21100 9999 0903 3060 0915 0918 Time 200 0857

1/1/4) Analyses Requested: Level II — Metals, Inorgs, Radios, BTEX, TPH-D Sample ID: $\overline{MW-01-0}$ Sample Time, $\overline{O9W}$ Duplicate (ID = $\overline{M/M}$, Time

ig.

128/1827 MW-01-0 M. Orcutt hours WELL ID: DATE: SAMPLED BY: Time Purge Start: feet 1,200 TD Casing: PROJECT: Florence Copper WELL INFORMATION

0580

hours

Time Sample Start:

minutes Time Purged: feet In, 124 Tug & 124,90 9.2 Static Depth to Water: System Purge before Params

				1	1	_					_			
Comments	QED Bladder Pump Intake 1000'	Clear, NO WORS							Long flow for 100's					7.26
Pulldown	(feet) <0.5 ft	0000	000	00:00	8,0	_	>							
Purge Volume	3	56	10,5	5111	12.5	13.5	14.5							
Pump Rate (L/min)	<0.5L/min	(2,27	0,33	0,33	_		→							
Turbidity (NTU)	10% or <5	2,82	2,77	223	2174	2,63	2137							
(mg/L)	10% or <.5	3,97	2178	25,58	7512	21.32	2,36							
EC (umhos/cm)	+/- 3%	1341	1370	1394	1412	1414	8/1/							
Hd	+/- 0.1	147	7.50	1.54	7515	7.59	7,60							
Temperature (°C)	+/-3%	2/5	2/5	5112	21.5	21.5	21.15							
Time		5160	8160	0921	0924	0927	0930							

Analyses Requested: Level II - Metals, Inorgs, Radios, BTEX, TPH-D Sample ID: MW-01-0 Sample Time, 0932 Duplicate (ID = M/P Time M/P

pH and TEMP CALIBRATION RECORD

Florence Copper Project

Instrument:

Probe SN:

APP Sampling Event Month:

Year:

Calibration Procedures:

-pH calibration/measurement should be performed in accordance with protocols Wastewater - 4500 H pH. Gentle agitation or stirring of sample should set forth by Standard Methods for the Examination of Water and maintained during pH calibration and sample analysis.

-Temperature measurement should be performed in accordance with protocols Wastewater - 2550 Temperature using an NIST traceable thermometer. set forth by Standard Methods for the Examination of Water and

Calibration Standards Used:

וניי		53	Necelven	Expiration
1 200	W. Sopoly	664777	1-3-18	Dec 18
3.7	6-14-58	764158	81-2-18	Aug 19
10.00		16884	17-19-17	Jen 19
7.00 Chk \(\vec{\xi_n} \)	1/2 Suppy	166 099	81-5-1	Jul 19

Calibration Record

3.1	Calibration Necold										
ď	-		pH 4.00	μd	pH 7.00	pH 1	pH 10.00	DH 7.0	pH 7.00Chk	Temp Chk*	***************************************
30 J	Sampler	T (°C)	Cal.	T (°C)	Cal.	$T(^{\circ}C)$	Cal.	(0°C)	Cal.	T (°C)	Lores
*	1-9-18 0820 Millim		14,0 4,00 14,5	14,5	7,00	14,7	10:01 15.4	6'51	7,07		
19.18 1222	11			J		1	. [8:22	6619		445 7.12
\vdash	et	12,3	4.00	13,4	7,00	14,1	10:00	1310	65.9		
-	11	15.7	4,00	12.11	7,00	14,5	10:01	9141	8519		
-	11	1	1	1	-\		7	(181	7,02		
1-15-18 0840	1.4	1816	14/10	1810	1,00	16.7	10,02	7161	7,02		
	Ŋ		1			1	-1	122	7,02		
	125-18 0840 "	19.6	4,00	2117	7,0i	18,5	20101	1218	7,07		
	11 05-18 12-50 11	[.	8-96	7226	8619	
									,		
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4		,									

Temperature check performed with second NIST thermometer.

** If meter does not provide slope, ensure that the calibration is confirmed with a recheck of pH 7.0 in the column "pH 7.00ChK",

***Perform 7-Check every 10 measurements or if Temperature increases by 15 °F.

**** All maintenance to instrument during the field event should be logged on this form. All maintenance should also be logged on the "Preventative Maintenance" log.

EC and DO CALIBRATION RECORD

Florence Copper Project

Instrument:

Probe SN:

APP Sampling Event Month:

Year:

Calibration Procedures:

- protocols set forth by Standard Methods for the Examination of Water and -EC calibration/measurement should be performed in accordance with Wastewater - 2510 Conductivity.
- -Temperature measurement should be performed in accordance with protocols Wastewater - 2550 Temperature using an NIST traccable thermometer. set forth by Standard Methods for the Examination of Water and
- -DO calibration/measurement should be performed as per manufacturer recommendations.

Calibration Standards Used:

Standard	Monufacturer	#101	Perioced	Evairation
Conc.	Manuacuici	LOUT	INCCCINCU	LAPIIAUOII
1413	En. 50904	p28H92	11/22/21	815nH
(check)	2/14			

4:100

Date Time Sampler EC 1413 EC/4/k3 P19-18 CR35 Chall T (°C) Cal. T (°C) Cal. 1-10-18 CR35 Chall 1414 1-11-18 CR35 Chall 1414 1-15-18 Chall 1414 1-15-18 Chall 1414 1-1					Specific	Specific Conductance			DO calibration		
819.8 0835 Orall T (°C) Cal. T (°C) Cal. 1-10-18 0820 11 1-11-19 0837 12 1-15-18 0845 11 1-15-18 0900 11 1-15-18 0900 11 1-15-18 0900 11 1-15-18 0900 11 1-15-18 0900 11	ate Ti			1413	7DE	41.3	EC 1	EC 1413 Chk	performed?	Z	Notes*
1-10-18 0835 Charles 1413 1-10-18 0825 11 1-11-18 0837 12 1-11-18 0845 11 1-15-18 0845 11 1-15-18 0845 11 1-15-18 0900 11 1-15-18 0900 11			T (°C)	Cal.	T (°C)	Cal.	T (°C)	Cal.	Yes/No		
11 080 11 11 11 11 11 11 11 11 11 11 11 11 11	9-18 C	X35 Bruth		À	1415	1414		duliA)	125	100 % SAT	763,2 ma/pe
1-15-18 0845 1. 15-18-18-18-18-18-18-18-18-18-18-18-18-18-	10 18.01	320 11			5,21	1413		`	421	10040547 7	7635" /
1-15-14 0845 " 1413 1413 1414 1415 1414	1-18108	37 1			1.8181	1413			1465	100058T.	" 5'011 dy
41/1/2 14/14	30 81.5	145 11			141	1413		~	'Yes		7667"
	518 0				17.5	hlhl			4.65	1	766.5
						-			-		•
											100
											23
* All maintenance to instrument during the field event should be logged on this form. All maintenance should also be logged on the "Preventative Maintenance" log.	All mainter	nance to instrument	t during the field	d event should t	e logged on this	form. All mainter	nance should alt	so be logged on the	"Preventative Maintenan	ce" log.	

TURBIDITY CALIBRATION RECORD

Florence Copper Project

Instrument: SN:

Probe SN:

81" La Moth 20202

APP Sampling Event Month:

Year:

Calibration Procedures:

-Calibration/measurement should be performed in accordance with protocols using an NIST traceable thermometer. set forth by USEPA Method 180.1

Calibration Standards Used:

Standard	Manufacturer	Lot#	Received	Expiration
0 NTU	Amco	(691307	2-13-17	5/18
1 NTU	i. 6.	C5827178	21-12	1118
10 NTU	1//	66898408	66898408 2-13-17 5/18	5/18
1 NTU Chk	<i>A</i>	62857128	2-1-11	8111

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Calibration Record	Record						
Date	Time	Sampler	0 NTU	1 NTU	10 NTU	1 NTU Chk	Notes**
19-18	0845	Broull	10,01	101	85'6		
84041		11	0,00	1,00	10,01		
81-11-1	0440	11	0100	1011	10:01		
81-151-1	2845	71	00.00	86.0	10,01		
81-57-1		i i	000	8610	86.6		
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1010	rail Androus Profo
	/ /
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1/5/ 1/1	yourare
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1 1	Equipo Trejan
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Scale 1 square =

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Brown and Caldwell	The state of the s	Acc	count # 5490			U:	SEPA Lab	ID		NPDES ID #	
Michael Orcutt 60256	74000							# QTA		Open Date	10/30/2017
201 East Washington : Phoenix AZ 85004	Street Suite 500						_	pe External P	т	Close Date	12/13/2017
NELAC #	Component	Method Code	Method Description	/>	leported Value	AV or StudyMean	Assigned Value	Acceptance Low	e Limits High	Performance Evaluation	Analysis Date
Part#55026WV	Lot#081117	WP Conductance @	25°C - DMRQA	@ 2	25 C			Invoice	# 16649	4 Units (imhos/cm
1610 Specific Con	ductance @ 25 C	200	2510B	1 4	76	8 744	744	670	818	ACCEPT.	12/12/2017

PT Evaluation Report

Page 1 o

AbsoluteGrade PT Program

All components are formulated and verified under Absolutes' NELAC scope (ANAB Accreditation ISO 17025, 17043 (Cert.# AP-1543), Guide 34-35) as shown in blue font.





Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1, and 9001



Cert. No.: 4372-84850

Traceable® Certificate of Calibration for Flip-Stick™ Thermometer

Instrument Identification:

Model: 4372

S/N: 170481521

Manufacturer: Control Company

Standards/Equipment:

<u>Description</u>	Serial Number	Due Date	NIST Traceable Reference
Temperature Calibration Bath TC-191	A42238		
Thermistor Module	A27129	12/01/17	1000401760
Temperature Probe	5202	12/19/17	B6B30058-1
Temperature Calibration Bath TC-218	A73332		
Thermistor Probe	5356	1/10/18	B7104024
Readout, Digital Thermometer	B5C344	3/12/18	B7314035

Certificate Information:

Technician: 104

Procedure: CAL-3

Cal Date: 4/24/17

Due Date: 4/24/19

Test Conditions:

23.7°C

47.0 %RH 1015 mBar

Calibration Data: (New Instrument)

Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±U	TUR
°C		N.A.		0.000	-0.4	Y	-1.0	1.0	0.059	>4:1
°C		N.A.		90.000	89.9	Y	89.0	91.0	0.059	>4:1

This instrument was calibrated using instruments Traceable to National Institute of Standards and Technology.

A Test Uncertainty Ratio of at least 4:1 is maintained unless otherwise stated and is calculated using the expanded measurement uncertainty. Uncertainty evaluation includes the instrument under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainty represents an expanded uncertainty using a coverage factor k=2 to approximate a 95% confidence level. In tolerance conditions are based on test results failing within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated. This certificate shall not be reproduced except in full, without written approval of Control Company.

Nominal=Standard's Reading; As Left=Instrument's Reading; In Tol=In Tolerance; Min/Max=Acceptance Range; ±U=Expanded Measurement Uncertainty; TUR=Test Uncertainty Ratio; Accuracy=±(Max-Min)/2; Min = As Left Nominal(Rounded) - Tolerance; Max = As Left Nominal(Rounded) + Tolerance; Date=MM/DD/YY

Yuod Lodrigues, Nicol Rodriguez, Quality Manager

Aaron Judice, Technical Manager

Maintaining Accuracy:

In our opinion once calibrated your Flip-Stick™ Thermometer should maintain its accuracy. There is no exact way to determine how long calibration will be maintained. Flip-Stick™ Thermometers change little, if any at all, but can be affected by aging, temperature, shock, and contamination.

Recalibration:

For factory calibration and re-certification traceable to National Institute of Standards and Technology contact Control Company.

CONTROL COMPANY 12554 Galveston RD Suite B230 Webster TX USA 77598 Phone 281 482-1714 Fax 281 482-9448 service@control3.com www.control3.com



Acknowledgement Form

Page ___ of ___

ame of Project/Site: Cari3/ Flarence C	Project No: 149.505
roject/Site Location: Florence Covis/Florence Corject/Site Location:	Permit Type (APP, AZPDES):
Imployee Completing Form: Print and Sign): Michael Orcult	Date: 1/31/2=17
Employee The following signatures indicate that these persor	Acknowledgement: nnel have read and/or been briefed on the documents indicated d the work to be performed:
pH by SM 4500 H-B	
temperature by SM 2550B	
specific conductance by SM 2510	В
dissolved oxygen by SM 4500 O-6	
turbidity by EPA 180.1	
☐ Manufacturer Info for Instrument _	
☐ Manufacturer Info for Instrument _	
Print	Sign
M. Docura	The state of the s
	+
	Comments

U R N E F

2445 N. Coyot e Drive, Suite 104

Tucson, Arizona 85745

Fax: (520) 882-9788 (520) 882-5880

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1-9-2018" PAGE

DATE

TURNER WORK ORDER #_

Diss. Mat-15 field Filler Blue Ice Received Within Hold Time Preservation Confirmation SAMPLE RECEIPT: Appropriate Head Space Wet Ice Fotal Containers_ CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX Temperature INVOICE INFORMATION: お RGS 50 大ろ No COC/Labels Agree Bill to: Florence Yes No Container Intact Yes No Custody Seals COC SPECIAL INSTRUCTIONS/COMMENTS: See Analysis sheet wi , Ke II. Report (includes DUP,MS,MSD, as required, may be charged as samples) _ III. Date Validation Report (Includes * 3 containers REPORT REQUIREMENTS: Mail ADEQ Forms: Compliance Analysis: 1. Routine Report ADEQ Forms: 4dd 10% to invoice All Raw Data) TURNAROUND REQUIREMENTS: Next day 2 Day 5 Day Standard (approx.10 days)* Email Preliminary Results To: *LEGEND DW = DRINKING WATER GW = GROUNDWATER WW = WASTEWATER ST = STORMWATER ицмвек оғ соитаіиекs * SG = SLUDGE **Working Days** SD = SOUD SAMPLE MATRIX* St = 50il. STATE 1/2 ZIP CODE 85004 35 UH 00 30 328 TURNER LABORATORIES, INC. PHONE 602.567 4000 FAX -4001 LAB I.D. H PROJECT NAME Florence CODDEC# 2. RECEIVED BY: 4. RECEIVED BY: 54/ www.turnerlabs.com 0260 1250 entra TIME 100 rinted Name Printed Name COMPANY NAME : Brown a 1012 Date/Time Date/Time Signature Agnature CONTACT NAME: Karb 81-6-1 81-6-1 81-6-1 81-6-0310800-67 81-6-DATE SAMPLER'S SIGNATURE ADDRESS: 2M, α CITY Phoendir Michael Once RELINQUISHED BY: ・ななが 3. RELINQUISHED BY: 1-4BF SAMPLE I.D. inted Name

T U R N E R

2445 N. Coyot e Drive, Suite 104

Tucson, Arizona 85745

www.turnerlabs.com Fax: (520) 882-9788 (520) 882-5880

TURNER WORK ORDER #

1 OF 1 DATE 1-10-2018 PAGE

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

	- F								ĺ	1	L	Blue Ice							
PROPRIATE BOX								CAMADI E RECEIDT.		Total Containers	Temperature	Wet Ice		Preservation Confirmation	Appropriate Head Space	Received Within Hold Time			fety 6y 8h (3)
AND/OR CHECK THE AP								INIVOICE INICOPAAATIONI:		Account K Y N	P.O.#	Bill to: Florence Copper	OMMENTS:	ly Seals	No Container Intact	No COC/Labels Agree	solid tillor	1,5} w/cocx	don to Rad Sat
CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX	755 Madal (151) 1550 Madals (151) 1646 Chen (151) 1640 Lossium 1640 Lo	メメ	X X X X					REPORT RECURREMENTS:	I. Routine Report	Li. Report (includes DUP,MS,MSD, as required, may be charged as samples)	III. Date Validation Report (includes	Add 10% to invoice	SPECIAL INSTRUCTIONS/COMMENTS:	Compliance Analysis: Yes	ADEQ Forms: Yes	Mail ADEQ Forms: 🗌 Yes	* DISS MEtals LLad	* See Analysis	Rado
CIR	MUMBER OF CONTRINERS (Van Ide (Free) (Van Ide (Free)	X X X Z/	スメメン					NABOLIND BEOLIDEMENTS.	Standard (approx.10 days)*	·	Email Preliminary Results To:		*LEGEND	84	= GROUNDWATER			SIURMWAIER = WASTEWATER	8
	duell ode 85004 sample matrix*	Ed)	(AM)	#a				(Caskalit)	Standa	Next day_	Email Pre	* Working Dave		OW = DRIN	GW = GROUSD SOLID		St. = 50lt.	WW = WAS	
capped #	CONTACT NAME: Barb Syluester. COMPANY NAME: Brown and Caldur III ADDRESS: 2 1/1 Central # 1600 SITY Phoenix, CHONE 602, 567, 4000 FAX - 4000 SAMPLER'S SIGNATURE SAMPLE 1.D. DATE TIME LAB 1.D. SAMPLE MAI	H	1345	1					2. RECEIVED BY:	Signature	Printed Name	Firm	4. RECEIVED BY:	Charles		Printed Name TURNER LABORATORIES, INC.	Flim	Date/Time	
PROJECT NAME POPPING COPPOR	CONTACT NAME: Back COMPANY NAME: Brown COMPANY NAME: Brown COMPANY NAME: Brown COMPANY NAME COMP	1/2		1-10-14						1 Chul	Califul !	F @ 1450						-	
ROJECT	CONTACT NA COMPANY NA ADDRESS : 2 CITY Phase PHONE 602 SAMPLER'S SI SAMPLE I.D.	M59-0	0-15M	13				אם שמווטוו וכוונו ומ	. NELINCA	John Show	Hintsdame	1-10	RELINQUISHED BY:	gnature	doted Name			ate/Time	

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2445 N. Coyot e Drive, Suite 104 Tucson, Arizona 85745

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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DATE 1-11-2018

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TURNER WORK ORDER #_

PROJECT NAME Florence Coffee	* Copper #		<u>-</u>	CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX	CHECK THE APPROPRIATE BOX
CONTACT NAME: Band SKIVESHER	Silvester	SH	((- lu	
COMPANY NAME : Brown +	wn + Caldwell	3NIA	12	151 10,1 15!	
ADDRESS: 2 19, Central	ntra/ #1600	TNO	1)	1) 10 1) 8	40
CITY Phoenix	STATE AZZIP CODE 850 CM	SSO CH DE	2)	IT Way SPE,	
PHONE 602 567,400@AX -409	1004×-400		OJU Ubb	no 12 FeW	
SAMPLER'S SIGNATURE	Mild	MUN	wok!	190 190 193 1191	
SAMPLE I.D. DATE	TIME LABI.D. SAMPLE	SAMPLE MATRIX*) T	N N N N N N N N N N N N N N N N N N N	
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81-11-1 A877-19	1255 S21	21 12	ストターダ	メメメメメ	
Н		2 79	× . .		
1. RELINQUISHED BY:	2. RECEIVED BY:	TURNAROUND REQUIRER	TURNAROUND REQUIREMENTS: **K Standard (approx.10 days)**	REPORT REQUIREMENTS: INVOIC	INVOICE INFORMATION: SAMPLE RECEIPT:
Las Och	Signature	Next day 2 Day	ey S Day*	II. Report (includes DUP,MS,MSD, as Account Y v	d v N Total Containers
Art le + Colores	Printed Name		y Results To:	III. Date Validation Report (Includes P.O. #	Temperature
1350 1350	Film			Add 10% to Invoice	
	Date/Time	• Working Days			Disemble Wet Ice Blue Ice
3. REUNQUISHED BY:	4. RECEIVED BY:	#LE(LEGEND	SPECIAL INSTRUCTIONS/COMMENTS:	
Signature	Signature	DW = DRINKING WATER	WATER	Compliance Analysis: Yes No Cust	Custody Seals Preservation Confirmation
Printed Name	Printed Name	SD = SOUD	W. C.	ADEQ Forms:	No Container Intact Appropriate Head Space
	TURNER LABORATORIES, INC.	\$G = \$LUDGE		☐ Yes☐ No	COC/Labels Agree
Date/Time		ST = STORMWATER	ER	4500 Analytical 134	1,000,
	Date/Time	ww = wastewater	ATER	* Drs. Metals field F.	
				o Radio Chemil Radon 222 to K	22 to Rad Safet by BC Hills
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* Rid Chem/ Raden 222 to Rad Satety by 8C. Blue Ice Received Within Hold Time Preservation Confirmation SAMPLE RECEIPT: Appropriate Head Space Fotal Containers CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX Wet Ice Temperature 1-15-2018 PAGE BILL TOPPING (600 P.S. INVOICE INFORMATION: COC/Labels Agree 8 Container Intact **Custody Seals** A X X SPECIAL INSTRUCTIONS/COMMENTS: DATE / 2 2 욷 Yes KII. Report (includes DUP, MS, MSD, as \ \ \ \ \ \ \ Yes _ III. Date Validation Report (Includes required, may be charged as samples) See Anclytica REPORT REQUIREMENTS: Dissimatals Mail ADEQ Forms: Compliance Analysis: 1. Routine Report ADEQ Forms: 4dd 10% to Invoice All Raw Data} **TURNER WORK ORDER #** TURNAROUND REQUIREMENTS: Next day ____2 Day ____5 Day* X Standard (approx.10 days)* Email Preliminary Results To: *LEGEND DW = DRINKING WATER St = SOIL ST = STORMWATER WW = WASTEWATER GW = GROUNDWATER 7 NUMBER OF CONTAINERS 1 4 SG = SLUDGE Working Days SD = SOLID STATE AZ_ ZIP CODE 85004 SAMPLE MATRIX* GU3 4 1600 TURNER LABORATORIES, INC. PHONE 602 ,567.4000 FAX - 400. CONTACT NAME: BOLD SYIVES FEA LAB 1.D. # PROJECT NAME Florence Condow COMPANY NAME : Brown and 2. RECEIVED BY: 4. RECEIVED BY: 2/60 www.turnerlabs.com Butral TIME Printed Name Printed Name Date/Time Date/Time 15-18 2/5/ 81-54 15:20180 1300 DATE SAMPLER'S SIGNATURE ADDRESS: 2 1/1 CITY Phaenix 3. RELINQUISHED BY: 56-13 55-11BI SAMPLE I.D. RELINGERSHE 0-0911 rinted Name Date/Time

TURNER

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Tucson, Arizona 85745 Fax: (520) 882-9788 (520) 882-5880

DATE 1-25.2018 PAGE

TURNER WORK ORDER #

Seitet 6780 (-3 601/4) Blue Ice Received Within Hold Time Preservation Confirmation SAMPLE RECEIPT: Wet Ice Appropriate Head Space Fotal Containers CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX Temperature_ 1000 INVOICE INFORMATION: to Kad No COC/Labels Agree Bill to: Florence No Container Intact 1, POCT No Custody Seals Account Y SPECIAL INSTRUCTIONS/COMMENTS: ٦ M. Report (includes DUP,MS,MSD, as required, may be charged as samples) Zš Š Xes III. Date Validation Report (Includes D155. Matals to 5 REPORT REQUIREMENTS: 222 Mail ADEQ Forms: Radontan Compliance Analysis: . Routine Report ADEQ Forms: 4dd 10% to invoice All Raw Data) TURNAROUND REQUIREMENTS: Next day 2 Day 5 Day* Standard (approx.10 days)* Email Preliminary Results To: *LEGEND DW = DRINKING WATER GW = GROUNDWATER WW = WASTEWATER ST = STORMWATER 12 **NUMBER OF CONTAINERS** SG = SLUDGE Working Days SD = SOUD SAMPLE MATRIX* SL = 501L STATE AS_ ZIP CODE 85004 CONTACT NAME: Karh Sylvester TURNER LABORATORIES, INC PHONE 502, 567, 4000 FAX - 400 LAB I.D. PROJECT NAME Florence COPPEM ADDRESS: LA Morth Central COMPANY NAME : Browing and 4. RECEIVED BY: 2. RECEIVED BY: www.turnerlabs.com 2560 13/0 Printed Name TIME rinted Name Date/Time Date/Ilme Signature 1-52-18 DHI 08/02-52-DATE SAMPLER'S SIGNATURE CITY Phoenes RELINQUISHED BY RELINQUISHED BY: 0-10-CIM Brehad Couling! MB-01-B SAMPLE I.D. 261-CB rinted Name Date/Time Signature

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